

Locking device and headrest

Patent claims

- 5 1. A locking device with spring means (30), the spring means (30) being provided in a manner such that they can be set at least into one locking position, the locking device being provided in a manner such that it can be adjusted relative to at least two retaining rods
10 (20) having a plurality of recesses (22), the spring means (30) interacting with the recesses (22) in such a manner that the setting of the spring means (30) in their locking position causes the locking device to be locked relative to the retaining rods (20),
15 characterized in that the spring means (30) are provided in such a manner that the locking of the at least two retaining rods (20) can be brought about by a mechanical fixing of the spring means (30) in a central region (35) or that the locking of the at least two
20 retaining rods (20) can be brought about by an application of force on the spring means (30) in a central region (35).
2. The locking device as claimed in claim 1,
25 characterized in that the spring means (30) are provided as a spring (30) provided as a single part.
3. The locking device as claimed in one of the preceding claims, characterized in that the spring
30 means (30) are provided as a spring (30) extending in an elongate manner essentially between the two retaining rods (20).
4. The locking device as claimed in one of the
35 preceding claims, characterized in that the spring means (30) comprise at least one central part and end parts.

5. The locking device as claimed in one of the preceding claims, characterized in that the spring means (30), in addition to their locking position, are provided in a manner such that they can be set into a release position, the spring means (30) interacting with the recesses (22) in such a manner that, when the spring means (30) are set in their release position, they open up the recesses (22).

6. The locking device as claimed in one of the preceding claims, characterized in that the locking device has a sliding element (40) which can be set at least in a first position and in a second position, the spring means (30) interacting with the sliding element (40) in such a manner that, when the sliding element (40) is set into its first position, the spring means (30) take up their locking position and that, when the sliding element (40) is set into its second position, the spring means (30) take up their release position.

7. The locking device as claimed in one of the preceding claims, characterized in that the sliding element (40) has a plurality of projections (42, 43), and in that the spring means (30) have a plurality of actuating regions (32, 33), a movement of the sliding element (40) parallel to a plane defined by the at least two retaining rods (20) bringing about a movement of the actuating regions (32, 33) which is essentially vertical thereto.

8. The locking device as claimed in one of the preceding claims, characterized in that the spring means (30) are elastically deformed by the movement of the actuating regions (32, 33).

9. The locking device as claimed in one of the preceding claims, characterized in that the actuating regions (32, 33) are of wedge-like design.

10. The locking device as claimed in one of the preceding claims, characterized in that the locking device has a bearing point (52), the bearing point (52) preventing a movement of the central region (35) of the spring means (30) during the movement of the actuating regions (32, 33).
11. A headrest (10) with a locking device as claimed in one of the preceding claims.
12. The headrest (10) as claimed in claim 11, characterized in that the headrest (10) interacts with retaining rods (20) which are provided in an essentially vertically oriented manner, so that the headrest (10) is provided such that it is height-adjustable.
13. Use of a headrest (10) or of a locking device as claimed in one of the preceding claims in a motor vehicle.